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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,365	07/10/2003	Adam Joe Shuttleworth	16333-US	1500
7	590 07/13/2005		EXAMINER	
William M. Dixon			NGUYEN, CHI Q	
Patent Department DEERE & COMPANY			ART UNIT	PAPER NUMBER
One John Deer			3635	
Moline, IL 6	1265-8098		DATE MAILED: 07/13/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	7		
		10/617,365	SHUTTLEWORTH ET AL.			
•	Office Action Summary	Examiner	Art Unit			
		Chi Q. Nguyen	3635			
	The MAILING DATE of this communi		vith the correspondence address			
Period fo	•					
THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNION Is is in soft time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community period for reply specified above is less than thirty (30 period for reply is specified above, the maximum state to reply within the set or extended period for reply very received by the Office later than three months after that term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may a unication.) days, a reply within the statutory minimum of the tutory period will apply and will expire SIX (6) MO will. by statute, cause the application to become	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) file	d on 10 July 2003.				
• • • • • • • • • • • • • • • • • • • •	•	b)⊠ This action is non-final.				
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>1-10</u> is/are pending in the a 4a) Of the above claim(s) is/ar Claim(s) is/are allowed. Claim(s) <u>1-10</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	e withdrawn from consideration.				
Applicati	on Papers			,		
10)⊠	The specification is objected to by the The drawing(s) filed on 10 July 2003 Applicant may not request that any object Replacement drawing sheet(s) including The oath or declaration is objected to	is/are: a) \square accepted or b) \square objection to the drawing(s) be held in abeyone the correction is required if the drawing	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
12)□ a)[Acknowledgment is made of a claim f All b) Some * c) None of: 1. Certified copies of the priority of 2. Certified copies of the priority of 3. Copies of the certified copies of	documents have been received. documents have been received in of the priority documents have bee nal Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stage			
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P ⁻ nation Disclosure Statement(s) (PTO-1449 or I r No(s)/Mail Date	TO-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)			

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DETAILED ACTION

This Office action is in response to the applicant's invention filed on 7/10/2003.

Claim Objections

Claims 2 and 6 are objected to because of the following informalities: the citation "the distance" does not have antecedent basis. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Manning (US 3,192,805).

In regard claim 1, Manning shows in figures 5-6, a joint structure comprising a first structural member having a channel 15, the channel having a first wall, a second wall 11a. The second wall generally opposite the first wall and a third wall (base) connecting the first and second walls, the third wall being disposed at an acute (less than 90-degree) angle to the first wall and at an obtuse (greater than 90-degree) angle to the second wall (see figure 6); a second structural member having a tongue portion 10 for matably engaging the channel of the first structural member, the tongue portion having a first wall, a second wall 10a. The second wall generally opposite the first wall, and a third wall (base) connecting the first and second walls, the third wall being disposed at an obtuse angle to the first wall and at an acute angle to the second, the

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angle of the third wall of the channel being opposite that of the channel being opposite that of the third wall of the tongue portion (figure 5).

In regard claim 6, Manning teaches the claimed invention as stated wherein further including a cross sectional area between the tongue portion and the channel is larger on one side than on the other when the tongue portion is matably received in the channel (see figure 2).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-5, and 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Manning '805.

In regard claims 2-5, and 7-10, Manning teaches the claimed invention as stated. However, Manning does not specifically teach a distance between the first wall of the channel and the first wall of the tongue portion is at least twice the distance between the second wall of the channel and the second wall of the tongue portion; wherein the angle of the first wall of the tongue portion parallel with and equal or greater than the angle of the first wall of the channel; and wherein the angle of the third wall of the channel is greater than the angle of the third wall of the tongue portion by at least 2-degree. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have specific distance for first wall of the channel and the tongue portion is at

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least twice the distance for the second wall of the channel and the tongue portion, the angle of the first wall of the first wall of the tongue portion is parallel with and equal/greater than the angle of the first wall of the channel, and the angle of the third wall of the channel is greater than the angle of the third wall of the tongue portion by at least 2-degree, since it has been held that where the general conditions of a claim are disclose in the prior art, discovering the optimum or working ranges involves only routine skill in the art. The motivation for doing so would have been to provide a gap for adjusting distance in relation to clamping objects' sizes. Furthermore, Manning discloses the basic claim structures of the instant application but does not disclose specific dimension (the angle of the third wall of the channel is greater than the angle of the third wall of the tongue portion by at least 2-degree, etc.), therefore it would have been an obvious design choice to use the dimensions such as specified in these claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Frashour, Brown, Rownd, Gregoire, Charbonneau, Hecht, and Knauseder teach joint structures.

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Chi Q. Nguyen whose telephone number is (571) 272-6847, Mon-Thu (7:00-5:30), Fridays off or examiner's supervisor, Carl Friedman can be reached at (571) 272-6842. The examiner's right fax number is (571) 273-6847.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published

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6/30/05